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Learning Support

Desk

2020. 7. 16

staff Dohui W00

「オンラインレポート執筆講座：京都大学附属図書館学習サ
ポートデスク」

Latex
Dohui Woo
October 11, 2019

1 Introduction

There is a theory which states that if ever anyone discovers exactly what the Universe is for and why it is here, it will instantly disappear and be replaced by something even more bizarre and inexplicable. There is another theory which states that this has already happened.



Figure 1: The Universe

2 Conclusion

"I always thought something was fundamentally wrong with the universe" [1]

References

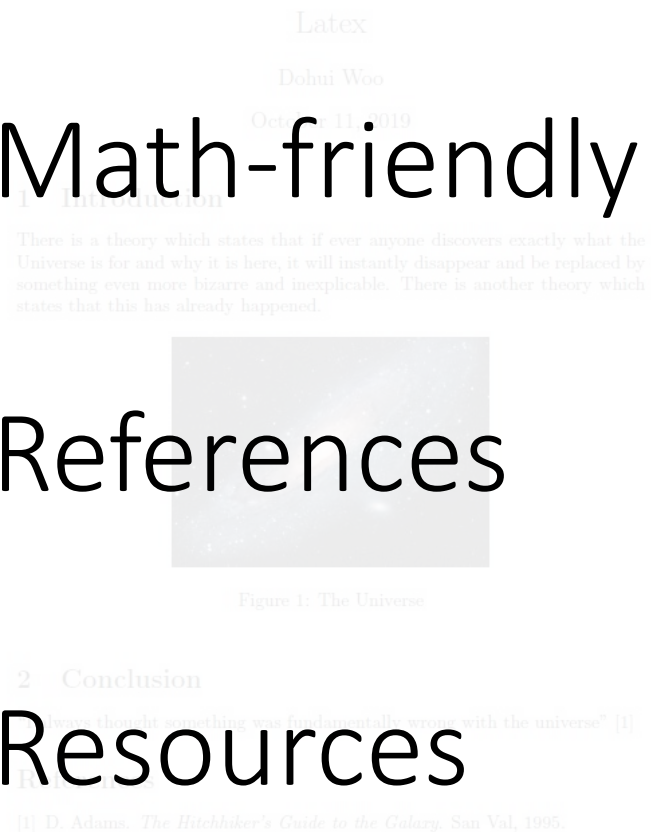
[1] D. Adams. *The Hitchhiker's Guide to the Galaxy*. San Val, 1995.

```
1 \documentclass{article}
2 \usepackage[utf8]{inputenc}
3
4 \title{Latex}\author{Dohui Woo}\date{\today}
5
6 \usepackage{natbib, graphicx}
7
8 \begin{document}
9
10 \maketitle
11
12 \section{Introduction}
13 There is a theory which states
14 that if ever anyone discovers exactly what the Universe is for
15 and why it is here,
16 it will instantly disappear and be replaced
17 by something even more bizarre and inexplicable.
18 There is another theory
19 which states that this has already happened.
20
21 \begin{figure}[h!]
22 \centering
23 \includegraphics[scale=1.7]{universe}
24 \caption{The Universe}
25 \label{fig:universe}
26 \end{figure}
27
28 \section{Conclusion}
29 ``I always thought something was fundamentally wrong
30 with the universe'' \cite{adams1995hitchhiker}
31
32 \bibliographystyle{plain}
33 \bibliography{references}
34 \end{document}
```

✓ Math-friendly

✓ References

✓ Resources



```
1 \documentclass{article}
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34 with the universe'' \cite{adams1995hitchhiker}
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37 \bibliography{references}
38
39 \end{document}
```

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**** is for a **special use**

functions

`\tableofcontents`

symbols

`\alpha`

user-specified functions

`\newcommand`

Preamble

¥documentclass{article}

Contents

¥begin{document}

¥end{document}

〔 What you **have to write** 〕

〔 What you **want to write** 〕

Preamble

Title, margins, author(s), date, and etc.

〔 What you **have to write** 〕

document **Class**

: determines the purpose
of the document

`¥documentclass{article}`

- article

- report

- book

- geometry

- graphicx

- natbib

Package import

: brings in the functions
you need

`¥usepackage{CJKutf8}`

<https://overleaf.com/learn/latex/Japanese>

etcetc.: set title, indent lengths, or line spaces, or declare your function

¥documentclass{article}

¥usepackage[hangul]{kotex}

¥usepackage[top = 2cm]{geometry}

¥usepackage{natbib, graphicx}

¥geometry{bottom = 0cm, nofoot}

¥title{An Introduction to LaTeX}

¥author{Dohui Woo}

¥date{}

✓ Set **Title**, author(s), date

¥title{A Striking Title} % you can't omit this item

¥author{Alice ¥and Bob}

¥date{¥today}

✓ maketitle

¥maketitle

✓ Package “geometry”

options : top, bottom, left, right, ...,
onecolumn, twocolumn,...

```
¥usepackage[top=10cm]{geometry}
```

Contents

Structure, math, tables, figures, references and etc.

〔 What you want to write 〕



← -----
¥section{Set}

¥subsection{The meaning of set and subset} ← -----

¥subsubsection{propositoin and condition} ← -----

¥paragraph{A proposition is,} a declarative
sentence ... ← -----

¥subparagraph{example} Which of the
following ... ← -----

Section

Sub-section

Sub-sub-section

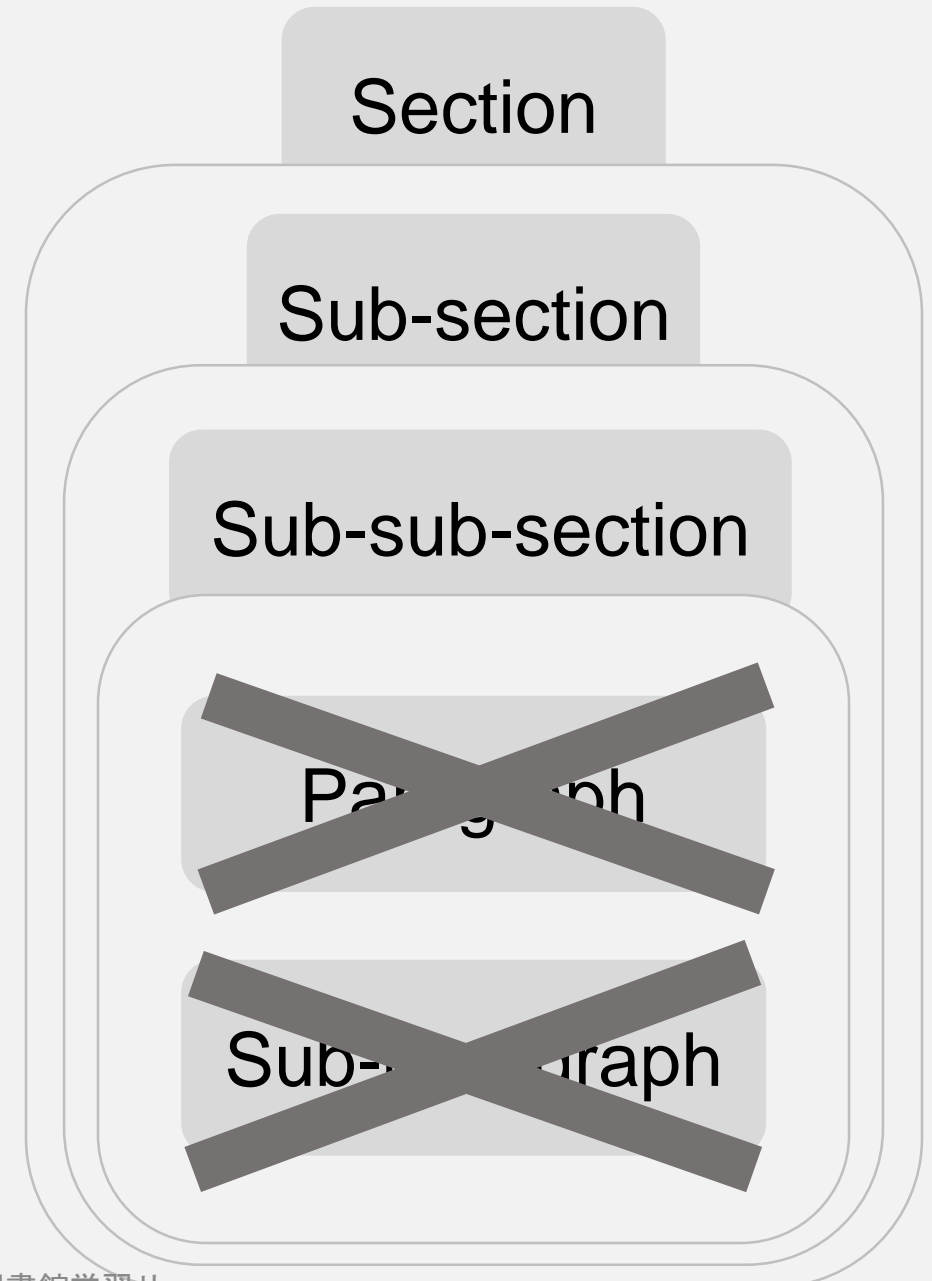
Paragraph

Sub-paragraph

Table of contents

1 Set	3
1.1 Set and subset.	3
1.1.1 proposition and condition.	3

¥tableofcontents



The solution of $ax^2 + bx + c = 0$ ($a \neq 0$) is,

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \quad (1)$$

```
1 \documentclass{article}
2 \begin{document}
3 ax^2
4 \end{document}
```

Missing \$
inserted.

✓ Math mode

- **\$ math \$: words**

The kinetic energy **\$K\$** of an object with a mass **\$m\$** moving with a velocity **\$v\$** is

- **\[math \] : phrases**

\[\frac{1}{2} mv^2 \]

The solutions of $ax^2 + bx + c = 0$ ($a \neq 0$) is,

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$



✓ tabular environment

```
¥begin{tabular}{|l|c|r|}  
    ¥hline  
    A1 & B1 & C1 ¥¥ ¥hline  
    A2 & B2 & C2 ¥¥ ¥hline  
¥end{tabular}
```

A1	B1	C1
A2	B2	C2

✓ tablesgenerator

✓ table environment

```
¥begin{table}  
  ¥caption{your caption}  
  ¥begin{tabular}{||c|r|}  
    ...  
  ¥end{tabular}  
¥end{table}
```

Table1. your caption

A1	B1	C1
A2	B2	C2

Table1. Prisoners' dilemma

	C	D
C	(1, 1)	(0, 10)
D	(10, 0)	(1, 1)



✓ Package graphicx

✓ figure environment

```
¥usepackage{graphicx}
```

```
¥begin{figure}
```

```
¥includegraphics{universe}
```

```
¥caption{pic of universe}
```

```
¥end{figure}
```

✓ Location : h(ere), t(op), b(ottom), p(age)

```
¥begin{figure}[option]
```

✓ Size : width, height, scale

```
¥includegraphics[option] {figure}
```



Tag a Label

```
¥begin{figure}  
  ...  
  ¥label{uni}  
  ...  
¥end{figure}
```



Fig. 1: Yay! Universe!

Figure. 1 was taken
when I was travelling
the universe.

Refer

Figure. ¥ref{uni} is taken
when I was travelling
the universe.



Figure 1: The Universe

2 Conclusion

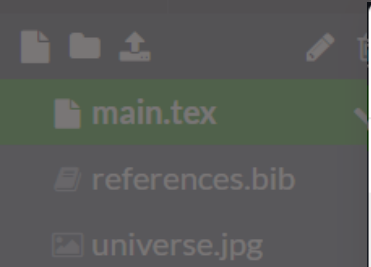
“I always thought something was fundamentally wrong with the universe” [1]

References

[1] D. Adams. *The Hitchhiker's Guide to the Galaxy*. San Val, 1995.

✓ quote

✓ references



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File Name

name.bib

① *.bib file

Cancel

Create

add

② ¥bibliography{

③ ¥bibliographystyle{

in main text

```
22 \caption{The Universe}
23 \label{fig:universe}
24 \end{figure}
25
26 \section{Conclusion}
27 "I always thought something was fundamentally wrong with the
universe" \cite{adams}
28
29 \bibliographystyle{plain}
30 \bibliography{references}
31 \end{document}
32
```

```
@book{davis2017selfish,  
  title={The selfish gene},  
  author={Davis, Nicola},  
  year={2017},  
  publisher={Macat Library}  
}
```

@book{adams1995hitchhiker,
title={The Hitchhiker's Guide to the Galaxy},
author={Adams D.d},
isbn={9781417642595},
year={1995},
publisher={San Val}}

@book{davis2017selfish,
title={The selfish gene},
author={Davis, Nicola},
year={2017},
publisher={Macat Library}}

Key

- Refer a document using the Key
- Changeable

¥bibliographystyle{plain}

Numbered

cite with parentheses ¥citep{Key} ► [1]


¥bibliographystyle{plainnat}

Author-year

¥citep{Key} ► [Alonso et al., 2008]

cite within text ¥citet{Key} ► Alonso et al. [2008]

¥bibliography{name}



Learning support desk

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with Zoom

α	<code>\alpha</code>	
a^x	<code>\a^x</code>	
\sqrt{a}	<code>\sqrt{a}</code>	<u>s</u>quare <u>r</u>oot
$\frac{1}{2}$	<code>\frac{1}{2}</code>	<u>f</u>raction
\neq	<code>\neq</code>	<u>n</u>ot <u>e</u>qual to
\geq	<code>\ge</code>	greater than or <u>e</u>qual to

- **`\begin{equation}...\end{equation}`**

✓ LaTeX

✓ Add “latexmkrc”

```
$latex = 'latex';  
$bibtex = 'bibtex';  
$dvi2pdf = 'dvi2pdf %O -o %D %S';  
$makeindex = 'makeindex %O -o %D %S';
```

www.overleaf.com/learn/latex/Japanese ←copy and paste